CONFIDENTIAL — OC-E File

[redacted] 25X1

WORK RECORD

CONTRACT NO. RD-128, T.O. 3

CONTRACTOR [redacted] 25X1

WORK ORDER NO. 4 CHANGE ORDER NO. ~~/~~ JOB TITLE Receiving Antennas

ISSUE DATE 20 March 1959 CRASH PRIORITY NO.

[redacted] 25X1

TOTAL COST $24397.03 25X1

[redacted] of the above total estimated cost and fee is subject to the availability of funds.

REQUESTED COMPLETION DATE 55 days after contractors receipt OR of this work order.

CONTRACTORS ESTIMATED COMPLETION DATE same as above.

WORK DESCRIPTION:

Fabricate receiving antennas as per the contractor's letter of proposal dated 9 March 1959. This letter is designated as Attachment I to this work order #4.

EQUIPMENT SECURITY CLASSIFICATION UNCLASSIFIED

CONTRACTOR'S ACCEPTANCE: /S/ [redacted] (Signature)

CONTRACTING OFFICER'S APPROVAL /S/ (Signature) 25X1

DATE COMPLETED

WORK ASSIGNED BY BY: PHONE VISIT X WRITTEN TASK

REQUESTING DIVISION APPROVAL [redacted]

ENGINEERING DIVISION APPROVAL 25X1

CONTACT FOR REQUESTING DIVISION

COGNIZANT COMPANY CONTACTS: TECHNICAL [redacted] PHONE [redacted] 25X1

BLDG. & ROOM 25X1

ADMINISTRATIVE [redacted] PHONE

BLDG. & ROOM 25X1

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SECRET

NOTICE

...information affecting the national defense of the United States within the meaning of the ... or revelation of ...

CONFIDENTIAL

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9 March 1959

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Gentlemen:

In compliance with a recent request of the addressee's representative, there is forwarded herewith [redacted] technical and cost plus fixed fee proposal in the amount of $24,397.03, including fixed fee. A detailed cost breakdown of this amount is furnished as enclosure (2). It is estimated that the antennas can be delivered within fifty-five (55) days following receipt of a fully executed contract as well as authorization for 500 hours of overtime premium pay for the [redacted] categories indicated on enclosure (2).

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It is understood that your requirements are for a group of antennas with the following general specifications:

Case I - Azimuth Coverage - 270°
Frequency - 1-2 kmc; 2-4 kmc; 4-8 kmc; 8-10 kmc
Polarization - Horizontal
Output - 50 ohm coaxial line (Type N connector)
Size - Maximum height - 23.6 inches

Case II - Azimuth Coverage - uni-directional
Frequency - 550 to 1100 mc
Polarization - Horizontal
Output - 50 ohm coaxial line (Type N connector)
Size - Maximum height - 23.6 inches

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In addition, this antenna shall be rotatable by means of a motor driven pedestal, operated by remote control, and the pedestal shall be connected to a remote azimuth indicator by a Synchro generator and follows arrangement. The available power source is 115 volts, 400 cycle, A.C. 28 volts D.C. is also available.

An additional identical pedestal, control box and indicator, less antenna, is also required.

Case III - Azimuth Coverage - 270°
Frequency - 550 - 1100 mc
Polarization - Horizontal
Output - 50 ohm coaxial line (Type N connector)
Size - Maximum height - 23.6 inches

Case IV - Azimuth Coverage - omnidirectional
Frequency - 50 to 100 mc; 125-200 mc
Polarization - Vertical
Output - 50 ohm coaxial line (Type N connector)
Size - Maximum height - 23.6 inches

By mutual agreement, azimuth coverage is defined as the beamwidth of the free space pattern of the antenna at nominal 6 db points. The relative power level could vary from 3 db to 10 db at the edges of the coverage region and still be acceptable. Where necessary, coverage may be obtained by the use of two or more antennas and the appropriate sector selected externally. (Switching not supplied by [redacted]) 25X1

Elevation coverage is not specified. It is understood that general coverage from horizon up is intended.

Minimum electrical tests to determine proper operation of each antenna are to be made. This would, in general, include pattern, gain and VSWR measurements at the ends and center of each frequency band. No environmental tests are to be performed.

Because of the extreme urgency of the requirement, the antennas to be delivered are engineering models. There are no special materials or finishes required. The antennas are to be fabricated from engineering sketches, and no drawings or reports are to be delivered. One reproducible copy of pertinent test data will be supplied.

Submitted as enclosure (3) is [redacted] technical proposal outlining the anticipated method of accomplishing the proposed work. 25X1

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This proposal may be considered firm for a period of ninety (90) days from the date of this letter.

In the event [redacted] is awarded this particular procurement, it is essential that the terms and conditions as outlined in enclosure (1) be given serious consideration in the preparation of a contract. 25X1

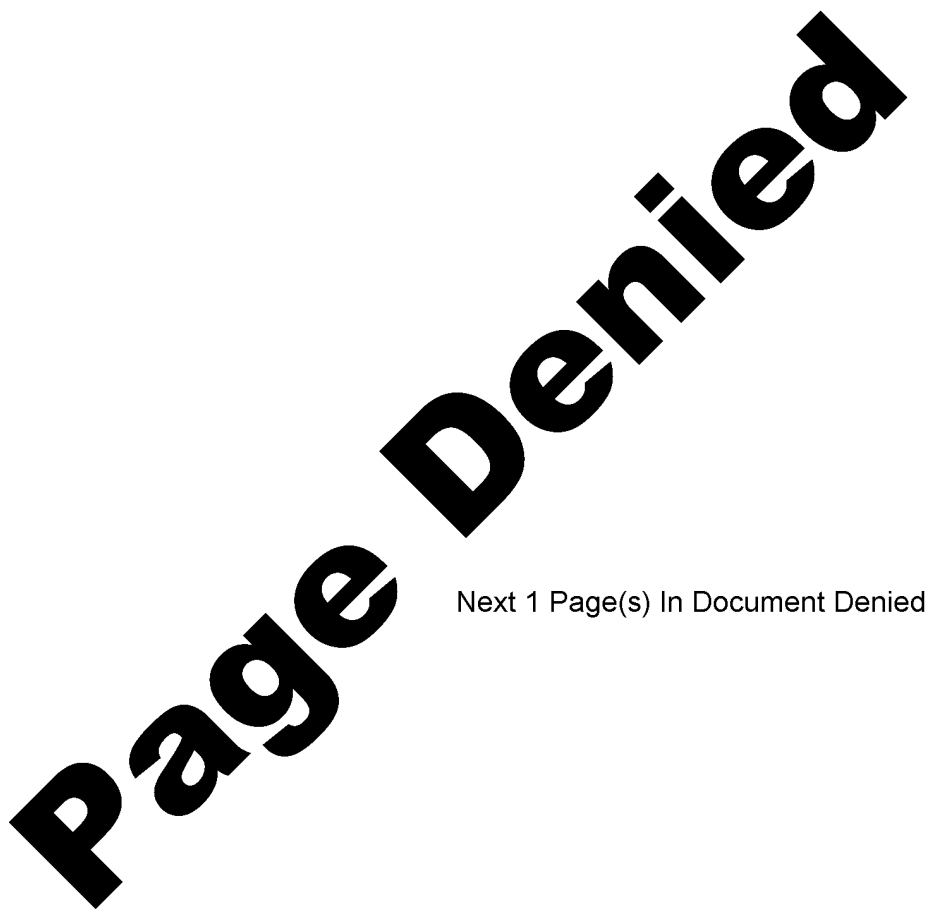
We appreciate the opportunity of submitting this proposal, and in the event any additional information is desired, please advise.

Very truly yours,

[redacted] 25X1

Contract Administrator

ATE:jfb



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stub. The approximate configuration of this type antenna Figure 18.